

Vision Exchange™

Web Service API Reference

Version 1.0

PEQ-C100/C130

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Introduction

This document describes the Web Service API of Vision Exchange.

The Web Service API is an API used by the Vision Exchange App and Vision Exchange Web App to control a Main Unit and Pods.

This API is a private API, and provides information released only to specific customers.

This API is not designed to enable control from any applications other than the Vision Exchange App and Vision Exchange Web App. If this API is used to implement proprietary control functions, it should perform control using the same procedure as the Vision Exchange App and Vision Exchange Web App.

Sony will not accept feature requests for bug fixes or customizations relating to the use of this API to implement proprietary controls.

Note

Note the following important points before reading this document.

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Symbols

The following symbols are used in this document. The meaning of each symbol is given below.



Note: Indicates an important point to note in a procedure.



Check: Indicates a point that requires confirmation in a procedure.



Hint: Indicates useful or other helpful information in a procedure.

Basic Information

The Web Service API is a RESTful API that uses the HTTP protocol to transfer request and response data in JSON format. Using this API allows you to acquire (GET), create (POST), change (PUT), and remove (DELETE) resources.

The format of arguments passed to this API are in URL, query parameter, request header, and request body format.

Specify "Content-Type:application/json" as the request header of all requests using this API.

The login process must be performed before issuing any API requests. The login process executes the "/api/v1/rest/users" resource using the POST method. The AccessToken parameter returned in the login process response must be passed as an argument when executing an API request. If a correct AccessToken is not specified, a "401 Unauthorized" error occurs, and API execution fails.

Login

Request

POST /api/v1/rest/users

Body

```
{
  "name": "string",
  "type": 0,
  "credential": "string",
  "userPermissions": [
    0
  ],
  "accessToken": "string"
}
```

Properties

Property name	Value	Description
name	string	Name
type	int	0: Passcode authentication 1: User token authentication
credential	string	Passcode or user token
userPermissions	int array	Return value
accessToken	string	Return value

Response

```
{
  "name": "string",
  "type": 0,
  "credential": "string",
  "userPermissions": [
    0
  ],
  "accessToken": "string"
}
```

Properties

Property name	Value	Description
name	string	Request argument
type	int	Request argument
credential	string	Request argument
userPermissions	int array	Array of access permissions 0: Mirroring 1: Control
accessToken	string	Access token

Logout

Request

DELETE /api/v1/rest/users

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

None

Exit System

Request

DELETE /api/v1/rest/system

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

None

Get System Information

Request

GET /api/v1/rest/system

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
{
  "state": 0,
  "deviceName": "string",
  "systemType": 0,
  "softwareVersion": "string"
}
```

Properties

Property name	Value	Description
state	int	0: Initializing 1: Displaying Home screen 2: Meeting in progress 3: Closing meeting 4: Displaying Administrator screen 5: Shutting down 6: Shutdown completed 7: Error
deviceName	string	Device name
systemType	int	0: Main Unit 1: Pod
softwareVersion	string	Software version

Get Meeting Information

Request

GET /api/v1/rest/meetings

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
[
  {
    "id": "string",
    "contentList": [
      {
        "id": "string",
        "type": "Unknown",
        "serviceId": "string",
        "sessionId": "string",
        "boardId": "string",
        "name": "string",
        "thumbnailDataType": "string",
        "thumbnailData": "string"
      }
    ],
    "panelList": [
      {
        "id": "string",
        "content": {
          "id": "string",
          "type": "Unknown",
          "serviceId": "string",
          "sessionId": "string",
          "boardId": "string",
          "name": "string",
          "thumbnailDataType": "string",
          "thumbnailData": "string"
        },
        "isFullscreen": true,
        "screenId": 0,
        "isGroupStreamingPresentation": true,
        "isV2oIPPresentation": true
      }
    ]
  }
]
```

```

    }
  ]
}
]

```

Properties

Property name	Value	Description
id	string	Meeting ID
contentList	array	Content list
contentList/id	string	Content ID
contentList/type	enum	Content type Unknown AirPlay V2oIPLocal V2oIPRemote V2oIPPresentation Whiteboard Snapshot GroupStreaming Mirroring HdmiCapture
contentList/serviceId	string	Service ID
contentList/sessionId	string	Session ID
contentList/boardId	string	Whiteboard ID
contentList/name	string	Content name
contentList/thumbnailDataType	string	File format of thumbnail data
contentList/thumbnailData	byte array	Thumbnail data
panelList	array	Panel list
panelList/id	string	Panel ID
panelList/content	object	Content data contained in panel
panelList/isFullscreen	boolean	"true" in full-screen mode
panelList/screenId	int	Number of the display showing panel
panelList/isGroupStreamingPresentation	boolean	"true" if presentation is in progress in group streaming
panelList/isV2oIPPresentation	boolean	"true" if presentation is in progress in video conferencing

Start Meeting

Request

POST /api/v1/rest/meetings

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
{
  "id": "string",
  "contentList": [
    {
      "id": "string",
      "type": "Unknown",
      "serviceId": "string",
      "sessionId": "string",
      "boardId": "string",
      "name": "string",
      "thumbnailDataType": "string",
      "thumbnailData": "string"
    }
  ],
  "panelList": [
    {
      "id": "string",
      "content": {
        "id": "string",
        "type": "Unknown",
        "serviceId": "string",
        "sessionId": "string",
        "boardId": "string",
        "name": "string",
        "thumbnailDataType": "string",
        "thumbnailData": "string"
      },
      "isFullscreen": true,
      "screenId": 0,
      "isGroupStreamingPresentation": true,
      "isV2oIPPresentation": true
    }
  ]
}
```

```

    ]
}

```

Properties

Property name	Value	Description
id	string	Meeting ID
contentList	array	Content list
contentList/id	string	Content ID
contentList/type	enum	Content type Unknown AirPlay V2oIPLocal V2oIPRemote V2oIPPresentation Whiteboard Snapshot GroupStreaming Mirroring HdmiCapture
contentList/serviceId	string	Service ID
contentList/sessionId	string	Session ID
contentList/boardId	string	Whiteboard ID
contentList/name	string	Content name
contentList/thumbnailDataType	string	File format of thumbnail data
contentList/thumbnailData	byte array	Thumbnail data
panelList	array	Panel list
panelList/id	string	Panel ID
panelList/content	object	Content data contained in panel
panelList/isFullscreen	boolean	"true" in full-screen mode
panelList/screenId	int	Number of the display showing panel
panelList/isGroupStreamingPresentation	boolean	"true" if presentation is in progress in group streaming
panelList/isV2oIPPresentation	boolean	"true" if presentation is in progress in video conferencing

Close Meeting

Request

DELETE /api/v1/rest/meetings/{meetingId}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID

Body

None

Response

None

Get Participants

Request

GET /api/v1/rest/meetings/{meetingId}/participants

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID

Body

None

Response

```
[
  {
    "name": "string"
  }
]
```

Properties

Property name	Value	Description
name	string	Names of participants

Update Panel Settings

Request

PUT /api/v1/rest/meetings/{meetingId}/panels/{panelId}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID
panelID	string	Panel ID

Body

```
{
  "id": "string",
  "content": {
    "id": "string",
    "type": "Unknown",
    "serviceId": "string",
    "sessionId": "string",
    "boardId": "string",
    "name": "string",
    "thumbnailDataType": "string",
    "thumbnailData": "string"
  },
  "isFullscreen": true,
  "screenId": 0,
  "isGroupStreamingPresentation": true,
  "isV2oIPPresentation": true
}
```

Properties

Property name	Value	Description
id	string	Ignored. Panel is specified by URL path argument.
content	object	Content data contained in panel
content/id	int	Content ID Only the ID is valid in content specification. All other parameters are ignored.
isFullscreen	boolean	"true" in full-screen mode
screenId	int	Number of the display showing panel
isGroupStreamingPresentation	boolean	"true" if presentation is in progress in group streaming
isV2oIPPresentation	boolean	"true" if presentation is in progress in video conferencing

Response

```
{
  "id": "string",
  "content": {
    "id": "string",
    "type": "Unknown",
    "serviceId": "string",
    "sessionId": "string",
    "boardId": "string",
    "name": "string",
    "thumbnailDataType": "string",
    "thumbnailData": "string"
  },
  "isFullscreen": true,
  "screenId": 0,
  "isGroupStreamingPresentation": true,
  "isV2oIPPresentation": true
}
```

Properties

Property name	Value	Description
id	string	Panel ID
content	object	Content data contained in panel
content/id	string	Content ID
content/type	enum	Content type Unknown AirPlay V2oIPLocal V2oIPRemote V2oIPPresentation Whiteboard Snapshot GroupStreaming Mirroring HdmiCapture
content/serviceId	string	Service ID
content/sessionId	string	Session ID
content/boardId	string	Whiteboard ID
content/name	string	Content name
content/thumbnailDataType	string	File format of thumbnail data
content/thumbnailData	byte array	Thumbnail data
isFullscreen	boolean	"true" in full-screen mode
screenId	int	Number of the display showing panel
isGroupStreamingPresentation	boolean	"true" if presentation is in progress in group streaming
isV2oIPPresentation	boolean	"true" if presentation is in progress in video conferencing

Add Content

Request

POST /api/v1/rest/meetings/{meetingId}/contents

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID

Body

```
{
  "id": "string",
  "type": "Unknown",
  "serviceId": "string",
  "sessionId": "string",
  "boardId": "string",
  "name": "string",
  "thumbnailDataType": "string",
  "thumbnailData": "string"
}
```

Properties

Property name	Value	Description
type	enum	Content type Only Whiteboard can be specified. All parameters other than "type" are ignored.

Response

```
{
  "id": "string",
  "type": "Unknown",
  "serviceId": "string",
  "sessionId": "string",
  "boardId": "string",
  "name": "string",
  "thumbnailDataType": "string",
  "thumbnailData": "string"
}
```

Properties

Property name	Value	Description
id	string	Content ID
type	enum	Content type Unknown AirPlay V2oIPLocal V2oIPRemote V2oIPPresentation Whiteboard Snapshot GroupStreaming Mirroring HdmiCapture
serviceId	string	Service ID
sessionId	string	Session ID
boardId	string	Whiteboard ID
name	string	Content name
thumbnailDataType	string	File format of thumbnail data
thumbnailData	byte array	Thumbnail data
isFullscreen	boolean	"true" in full-screen mode
screenId	int	Number of the display showing panel
isGroupStreamingPresentation	boolean	"true" if presentation is in progress in group streaming
isV2oIPPresentation	boolean	"true" if presentation is in progress in video conferencing

Delete Content

Request

```
DELETE /api/v1/rest/meetings/{meetingId}/contents/{contentId}
```

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID
contentID	string	Content ID

Body

None

Response

None

Take Snapshot

Request

POST /api/v1/rest/meetings/{meetingId}/snapshots

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID

Body

```
{
  "panelId": "string"
}
```

Properties

Property name	Value	Description
panelId	string	Panel ID

Response

None

Create Task that Executes Snapshot Process

Request

POST /api/v1/rest/meetings/{meetingId}/snapshots/tasks

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID

Body

```
{
  "id": "string",
  "type": "Save",
  "state": 0,
  "object": {}
}
```

Properties

Property name	Value	Description
id	string	Return value
type	enum	Task type ("Save" only)
state	int	Return value
object	object	Return value

Response

```
{
  "id": "string",
  "type": "Save",
  "state": 0,
  "object": {}
}
```

Properties

Property name	Value	Description
id	string	Task ID
type	enum	Task type ("Save" only)
state	int	0: Before execution 1: Executing 2: Completed 3: Failed
object	object	Task execution result

Get Status of Task that Executes Snapshot Process

Request

GET /api/v1/rest/meetings/{meetingId}/snapshots/tasks/{id}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID
id	string	Task ID

Body

None

Response

```
{
  "id": "string",
  "type": "Save",
  "state": 0,
  "object": {}
}
```

Properties

Property name	Value	Description
id	string	Task ID
type	enum	Task type ("Save" only)
state	int	0: Before execution 1: Executing 2: Completed 3: Failed
result	object	Task execution result

Get Thumbnail

Request

GET /api/v1/rest/meetings/{meetingId}/contents/{contentId}/thumbnail

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
meetingId	string	Meeting ID
contentId	string	Content ID

Body

None

Response

Image data

* Only this API request generates a response header with Content-type value of image/png.

Get Video Conferencing Call Status

Request

GET /api/v1/rest/services/v2oip/calls

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
[
  {
    "id": "string",
    "state": 0,
    "remoteUri": "string",
    "protocolType": 0
  }
]
```

Properties

Property name	Value	Description
id	string	Call ID
state	int	0: Connecting 1: Calling 2: Answering 3: On-hold 4: Disconnecting 5: Disconnected
remoteUri	string	URI of remote party
protocolType	int	0: SIP 1: H.323

Start Video Conferencing Call

Request

POST /api/v1/rest/services/v2oip/calls

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "id": "string",
  "state": 0,
  "remoteUri": "string",
  "protocolType": 0
}
```

Properties

Property name	Value	Description
id	string	Return value
state	int	Return value
remoteUri	string	URI of remote party
protocolType	int	0: SIP 1: H.323

Response

```
{
  "id": "string",
  "state": 0,
  "remoteUri": "string",
  "protocolType": 0
}
```

Properties

Property name	Value	Description
id	string	Call ID
state	int	0: Connecting 1: Calling 2: Answering 3: On-hold 4: Disconnecting 5: Disconnected
remoteUri	string	URI of remote party
protocolType	int	0: SIP 1: H.323

Disconnect Video Conferencing Call

Request

```
DELETE /api/v1/rest/services/v2oip/calls/{id}
```

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
id	string	Call ID

Body

None

Response

None

Answer/Reject Video Conferencing Call

Request

PUT /api/v1/rest/services/v2oip/calls/{id}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
id	string	Call ID

Body

```
{
  "id": "string",
  "state": 0,
  "remoteUri": "string",
  "protocolType": 0
}
```

Properties

Property name	Value	Description
id	string	Call ID
state	int	0: Connecting 5: Disconnected
remoteUri	string	Disabled
protocolType	int	Disabled

Response

None

Get Video Conferencing Contact

Request

GET /api/v1/rest/services/v2oip/contacts

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
[
  {
    "id": "string",
    "address": "string",
    "name": "string",
    "aliasType": 0,
    "protocolType": 0
  }
]
```

Properties

Property name	Value	Description
id	string	Contact (remote party) ID
address	string	Contact (remote party) address
name	string	Contact (remote party) name
aliasType	int	0: IP Address 1: H323 ID 2: E.164 Number 3: E.164 Extension 4: URL 5: Party Number 6: Annex E 7: Unknown
protocolType	int	0: SIP 1: H.323

Add Video Conferencing Contact

Request

POST /api/v1/rest/services/v2oip/contacts

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "id": "string",
  "address": "string",
  "name": "string",
  "aliasType": 0,
  "protocolType": 0
}
```

Properties

Property name	Value	Description
id	string	Contact (remote party) ID
address	string	Contact (remote party) address
name	string	Contact (remote party) name
aliasType	int	0: IP Address 1: H323 ID 2: E.164 Number 3: E.164 Extension 4: URL 5: Party Number 6: Annex E 7: Unknown
protocolType	int	0: SIP 1: H.323

Response

```
[
  {
    "id": "string",
    "address": "string",
    "name": "string",
    "aliasType": 0,
    "protocolType": 0
  }
]
```

Properties

Property name	Value	Description
id	string	Contact (remote party) ID
address	string	Contact (remote party) address
name	string	Contact (remote party) name
aliasType	int	0: IP Address 1: H323 ID 2: E.164 Number 3: E.164 Extension 4: URL 5: Party Number 6: Annex E 7: Unknown
protocolType	int	0: SIP 1: H.323

Update Video Conferencing Contact

Request

PUT /api/v1/rest/services/v2oip/contacts/{contactId}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
contactId	string	Contact (remote party) ID

Body

```
{
  "id": "string",
  "address": "string",
  "name": "string",
  "aliasType": 0,
  "protocolType": 0
}
```

Properties

Property name	Value	Description
id	string	Contact (remote party) ID
address	string	Contact (remote party) address
name	string	Contact (remote party) name
aliasType	int	0: IP Address 1: H323 ID 2: E.164 Number 3: E.164 Extension 4: URL 5: Party Number 6: Annex E 7: Unknown
protocolType	int	0: SIP 1: H.323

Response

```
[
  {
    "id": "string",
    "address": "string",
    "name": "string",
    "aliasType": 0,
    "protocolType": 0
  }
]
```

Properties

Property name	Value	Description
id	string	Contact (remote party) ID
address	string	Contact (remote party) address
name	string	Contact (remote party) name
aliasType	int	0: IP Address 1: H323 ID 2: E.164 Number 3: E.164 Extension 4: URL 5: Party Number 6: Annex E 7: Unknown
protocolType	int	0: SIP 1: H.323

Delete Video Conferencing Contact

Request

DELETE /api/v1/rest/services/v2oip/contacts/{contactId}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
contactId	string	Contact (remote party) ID

Body

None

Response

None

Get Video Conferencing History

Request

GET /api/v1/rest/services/v2oip/histories

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
[
  {
    "contact": {
      "id": "string",
      "address": "string",
      "name": "string",
      "aliasType": 0,
      "protocolType": 0
    },
    "recordId": "string",
    "startTime": "2017-03-21T06:39:55.624Z",
    "endTime": "2017-03-21T06:39:55.624Z",
    "isOutgoing": true
  }
]
```

Properties

Property name	Value	Description
contact/id	string	Contact (remote party) ID
contact/address	string	Contact (remote party) address
contact/name	string	Contact (remote party) name
contact/aliasType	int	0: IP Address 1: H323 ID 2: E.164 Number 3: E.164 Extension 4: URL 5: Party Number 6: Annex E 7: Unknown
contact/protocolType	int	0: SIP 1: H.323
recordId	string	History ID
startTime	date	Conferencing start time
endTime	date	Conferencing end time
isOutgoing	boolean	"true" when sending, "false" when receiving

Delete Video Conferencing History

Request

```
DELETE /api/v1/rest/services/v2oip/histories/{historyId}
```

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
historyId	string	History ID

Body

None

Response

None

Get Status of Video Conferencing Service

Request

GET /api/v1/rest/services/v2oip/status

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
{
  "state": 0,
  "pan": {
    "isAvailable": true,
    "stepValue": 0,
    "currentValue": 0,
    "minValue": 0,
    "maxValue": 0
  },
  "tilt": {
    "isAvailable": true,
    "stepValue": 0,
    "currentValue": 0,
    "minValue": 0,
    "maxValue": 0
  },
  "zoom": {
    "isAvailable": true,
    "stepValue": 0,
    "currentValue": 0,
    "minValue": 0,
    "maxValue": 0
  },
  "iris": {
    "isAvailable": true,
    "stepValue": 0,
    "currentValue": 0,
    "minValue": 0,
    "maxValue": 0
  },
  "focus": {
    "isAvailable": true,
```

```

    "stepValue": 0,
    "currentValue": 0,
    "minValue": 0,
    "maxValue": 0
  },
  "micVolume": 0,
  "speakerVolume": 0
}

```

Properties

Property name	Value	Description
state	int	0: Connecting 1: Calling 2: Answering 3: On-hold 4: Disconnecting 5: Disconnected
pan	object	Pan setting of camera
tilt	object	Tilt setting of camera
zoom	object	Zoom setting of camera
iris	object	Iris setting of camera
focus	object	Focus setting of camera
micVolume	int	Microphone volume
speakerVolume	int	Speaker volume

Update Speaker Volume of Video Conferencing

Request

PUT /api/v1/rest/services/v2oip/setting/speaker

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "value": 0
}
```

Properties

Property name	Value	Description
value	int	Speaker volume

Response

None

Update Microphone Volume of Video Conferencing

Request

```
PUT /api/v1/rest/services/v2oip/setting/mic
```

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{  
  "value": 0  
}
```

Properties

Property name	Value	Description
value	int	Microphone volume

Response

None

Update Iris Setting of Video Conferencing Camera

Request

PUT /api/v1/rest/services/v2oip/setting/iris

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "value": 0
}
```

Properties

Property name	Value	Description
value	int	Iris setting of camera

Response

None

Update Focus Setting of Video Conferencing Camera

Request

PUT /api/v1/rest/services/v2oip/setting/focus

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{  
  "value": 0  
}
```

Properties

Property name	Value	Description
value	int	Focus setting of camera

Response

None

Update Zoom Setting of Video Conferencing Camera

Request

PUT /api/v1/rest/services/v2oip/setting/zoom

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "value": 0
}
```

Properties

Property name	Value	Description
value	int	Zoom setting of camera

Response

None

Update Tilt Setting of Video Conferencing Camera

Request

PUT /api/v1/rest/services/v2oip/setting/tilt

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "value": 0
}
```

Properties

Property name	Value	Description
value	int	Tilt setting of camera

Response

None

Update Pan Setting of Video Conferencing Camera

Request

PUT /api/v1/rest/services/v2oip/setting/pan

Request header

Property name	Value	Description
Authorization	string	Access token

Body

```
{
  "value": 0
}
```

Properties

Property name	Value	Description
value	int	Pan setting of camera

Response

None

Delete All Annotations from Specified Content

Request

DELETE /api/v1/rest/annotations

Request header

Property name	Value	Description
Authorization	string	Access token

Query parameters

Property name	Value	Description
meetingId	string	Meeting ID
contentId	string	Content ID

Body

None

Response

None

Get Annotations from Specified Content

Request

GET /api/v1/rest/annotations

Request header

Property name	Value	Description
Authorization	string	Access token

Query parameters

Property name	Value	Description
meetingId	string	Meeting ID
contentId	string	Content ID

Body

None

Response

```
[
  {
    "contentId": "string",
    "type": 0,
    "path": {
      "name": "string",
      "segment": [
        {
          "x": 0,
          "y": 0
        }
      ],
      "strokeColor": "string",
      "strokeWidth": 0
    },
    "postit": {
      "id": "string",
      "action": 0,
      "top": 0,
      "left": 0,
      "height": 0,
      "width": 0,
      "text": "string"
    }
  }
]
```

```

    },
    "canUndo": true,
    "canRedo": true
  }
]

```

Properties

Property name	Value	Description
contentId	string	Content ID
path/name	string	Name of pen path
path/segment	array	Segment of pen path
path/strokeColor	string	Pen color
path/strokeWidth	double	Pen width
postit/id	string	Post-it ID
postit/action	int	0: None 1: Create 2: Edit 3: Delete
postit/top	double	Post-it coordinate
postit/left	double	Post-it coordinate
postit/height	double	Post-it height
postit/width	double	Post-it width
postit/text	string	Post-it character string
canUndo	boolean	"true" when Undo is available
canRedo	boolean	"true" when Redo is available

Add Annotation

Request

POST /api/v1/rest/annotations

Request header

Property name	Value	Description
Authorization	string	Access token

Query parameters

Property name	Value	Description
meetingId	string	Meeting ID
contentId	string	Content ID

Body

```
{
  "contentId": "string",
  "type": 0,
  "path": {
    "name": "string",
    "segment": [
      {
        "x": 0,
        "y": 0
      }
    ],
    "strokeColor": "string",
    "strokeWidth": 0
  },
  "postit": {
    "id": "string",
    "action": 0,
    "top": 0,
    "left": 0,
    "height": 0,
    "width": 0,
    "text": "string"
  },
  "canUndo": true,
  "canRedo": true
}
```

Properties

Property name	Value	Description
contentId	string	Content ID
path/name	string	Name of pen path
path/segment	array	Segment of pen path
path/strokeColor	string	Pen color
path/strokeWidth	double	Pen width
postit/id	string	Post-it ID
postit/action	int	0: None 1: Create 2: Edit 3: Delete
postit/top	double	Post-it coordinate
postit/left	double	Post-it coordinate
postit/height	double	Post-it height
postit/width	double	Post-it width
postit/text	string	Post-it character string
canUndo	boolean	"true" when Undo is available
canRedo	boolean	"true" when Redo is available

Response

None

Delete Annotation

Request

```
DELETE /api/v1/rest/annotations/{annotationId}
```

Request header

Property name	Value	Description
Authorization	string	Access token

Query parameters

Property name	Value	Description
meetingId	string	Meeting ID
contentId	string	Content ID

URL path argument

Property name	Value	Description
annotationId	string	Meeting ID

Body

None

Response

None

Add Annotation Task

Request

POST /api/v1/rest/annotations/tasks

Request header

Property name	Value	Description
Authorization	string	Access token

Query parameters

Property name	Value	Description
meetingId	string	Meeting ID
contentId	string	Content ID

URL path argument

Property name	Value	Description
annotationId	string	Meeting ID

Body

```
{
  "id": "string",
  "type": "Undo"
}
```

Properties

Property name	Value	Description
id	string	Return value
type	enum	Undo or Redo

Response

```
{
  "id": "string",
  "type": "Undo"
}
```

Properties

Property name	Value	Description
id	string	Task ID
type	enum	Undo or Redo

Get List of Notifications

Request

GET /api/v1/rest/notifications

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
[
  {
    "id": "string",
    "date": "2017-03-21T06:39:55.596Z",
    "type": 0,
    "messageFormatName": "string",
    "messageArguments": [
      "string"
    ],
    "messageId": 0,
    "message": "string"
  }
]
```

Properties

Property name	Value	Description
id	string	Notification ID
date	date	Notification date
type	int	0: Information 1: Warning 2: Error
messageFormatName	string	Message format
messageArguments	array	Message arguments
messageId	int	Message ID
message	string	Message

Delete All Notifications

Request

DELETE /api/v1/rest/notifications

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

None

Delete Specified Notification

Request

DELETE /api/v1/rest/notifications/{notificationId}

Request header

Property name	Value	Description
Authorization	string	Access token

URL path argument

Property name	Value	Description
notificationId	string	Notification ID

Body

None

Response

None

Get Status of Group Streaming Service

Request

GET /api/v1/rest/services/groupstreaming/status

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
{
  "serviceType": "Host"
}
```

Properties

Property name	Value	Description
serviceType	enum	Host or Guest

Get Status of Mirroring Service

Request

GET /api/v1/rest/services/mirroring/status

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
{
  "protocolVersion": "string"
}
```

Properties

Property name	Value	Description
protocolVersion	string	Protocol version

Get List of Services

Request

GET /api/v1/rest/services

Request header

Property name	Value	Description
Authorization	string	Access token

Body

None

Response

```
[
  {
    "id": "string",
    "name": "string",
    "status": 0
  }
]
```

Properties

Property name	Value	Description
id	string	Service ID
name	string	Name of service
status	int	0: Enabled 1: Disabled 2: Error